

EXECUTIVE SUMMARY

The Department of Ecology's Technical Resources for Engineering Efficiency (TREE) team worked with Salmolux, Inc. to identify ways to reduce their water, chemical and energy use. Located in Federal Way, Washington, Salmolux, Inc. smokes and processes salmon and other fish for commercial and retail products. The TREE team made several site visits to the facility to observe the current process activities, gather data and identify potential opportunities. This report presents the TREE team's evaluation of this facility's best opportunities for reducing the use of water, use of process chemicals, generation of wastes, and associated costs.

Based on utility records, Salmolux uses about 4,000,000 gallons of water, and generates 1,500 cubic yards of solid waste and 885,000 pounds of fish waste in one year¹. Though Salmolux water use already decreased during the past couple years, implementing the three quantified opportunities summarized in Table 1 will reduce water use another 5%. Additional non-quantified opportunities included in this report will reduce waste generation, and provide water, energy, and money savings.

TABLE 1: ANNUAL SAVINGS FROM QUANTIFIED OPPORTUNITIES

	Clothes Washers	Tray Washer	Floor Sprayers	Total
Total Annual Savings	\$1,460	\$860	\$320	\$2,640
Chemical Use				
Pounds Reduced			390	390
Purchase Cost Savings			\$70	\$70
Power				
kWh	4,300			4,300
Purchase Cost Savings	\$310			\$310
Sewer				
Gallons Reduced	138,000	103,000	29,000	270,000
Disposal Cost Savings	\$1,010	\$760	\$220	\$1,990
Water Use				
Gallons Reduced	138,000	103,000	29,000	270,000
Purchase Cost Savings	\$140	\$100	\$30	\$270

¹ The team used billing records from Lakehaven Utility District, Waste Management, and Jessie's Ilwaco Fish Company. If bills were not accessible for the full year, an average was used to interpolate.